

## Diagnosis and Treatment of Vascular Disease

## ABSTRACT

The present invention is based at least in part on the discovery of polymorphisms within the endothelin-1 (EDN1) gene. Accordingly, the invention provides nucleic acid molecules having a nucleotide sequence of an allelic variant of an EDN1 gene. The invention also provides methods for identifying specific alleles of polymorphic regions of an EDN1 gene, methods for determining whether a subject has or is at risk of developing a disease which is associated with a specific allele of a polymorphic region of an EDN1 gene, e.g., a vascular disease, based on detection of one or more polymorphisms within the EDN1 gene, and kits for performing such methods. The invention further provides methods for identifying a subject who has, or is at risk for developing, a vascular disease or disorder as a candidate for a particular clinical course of therapy or a particular diagnostic evaluation. The invention further provides methods for selecting a clinical course of therapy or a diagnostic evaluation to treat a subject who is at risk for developing, a vascular disease or disorder.

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